SVClient S60 v2

User Guide

SerVision client software
for cellular phones running on the
Symbian S60 platform, version 8 (2nd edition)

SerVision

January
2008

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Published 2008

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Introduction

SerVision develops and markets *video gateway* units for monitoring sites using video cameras, sensors, and other devices. The video gateways can be accessed remotely using a variety of *client devices*: desktop or laptop PCs and mobile devices such as PDAs and cellular phones. When you are connected to a SerVision video gateway through a client device, you can view live or recorded video from the gateway on it. In addition, if the video cameras connected to the gateway have PTZ (pan, tilt, zoom) features, you can control and move the cameras remotely through the client device.

In order to connect to a SerVision video gateway through a client device, SerVision's client software must be installed on the client device. This manual explains how to install and use SerVision client software on cellular phones that run on the **Symbian S60** platform (2nd edition, version 8). Once this software is installed on a supported cellular phone, you can use the phone to connect to your SerVision gateways whenever the phone is connected to the cellular network.

Supported Platforms

SerVision provides client software for client device running on the following platforms (operating systems):

Platform	Client Software	SerVision Guide
Windows PC	MultiClient	*MultiClient User Guide*
Windows Mobile (Windows CE)	SVClientCE	Windows Mobile Client User Guide
Symbian S60	SVClientS60	For Symbian S60, version 8: This guide Note: Software and guides for other Symbian S60 versions are available on the SerVision website (http:www.servision.net)
Symbian UIQ	SVClientUIQ	Symbian UIQ Client User Guide

This guide explains how to install and use the SerVision Symbian S60 client application, SVClient S60, on cellular phones running on Symbian S60 version 8 (2nd edition). Client applications for other versions of the Symbian S60 platform, and manuals for those applications are available on the SerVision website (http://www.servision.net).

Supported Cellular Phones

SVClient S60 is compatible with most S60 cellular phones, and has been tested on many of them. A list of supported cellular phones can be found on the SerVision website (www.servision.net) in the list of supported accessories. If your device is not on the list, this means that it was not tested by SerVision. SVClient S60 will probably work on it in any case. For additional information about supported devices, please consult your vendor or SerVision technical support.

For comprehensive lists of S60 devices, see:

- http://www.s60.com/devices
- http://www.symbian.com/phones/index.html

About this Manual

This manual explains the following topics:

Topic	Page	Description
Prerequisites	8	Information, hardware, and software you should have available before starting the installation process
Installing SVClient S60	10	Downloading SVClient S60 from the SerVision FTP site; installing SVClient S60 on your cellular phone
Configuring SVClient S60	18	Initial configuration of SVClient S60 on the cellular phone
Overview of the interface	25	Description of the main SVClient S60 screen, menu options, and hotkeys
Viewing video	29	Using SVClient S60 to view video images and control cameras
Viewing recorded video	36	Using SVClient S60 to view recorded video of events or to playback recorded video by time
Switching to a different video gateway	43	Using SVClient S60 to connect to more than one video gateway
Turning activators on or off	45	Using SVClient S60 to turn activators (outputs) – such as alarms or locks – on or off remotely

Prerequisites

Before installing SVClient S60, make the following preparations:

1. **Phone platform:** Make sure the cellular phone runs on the Symbian S60 platform, version 8 (2nd edition).

2. **PC:** In order to install the software, you will need a PC as well as the cellular phone. In order to interact with the cellular phone, at least one of the following conditions must be met:

   - **Synchronization software (Recommended):** The PC must have synchronization software installed on it that allows it to interact with the phone. This software makes it possible for you to install additional software, such as SVClient S60, onto the cellular phone, either via cable or via Bluetooth. It is usually supplied along with the phone or available for download from the internet. For example, if you are using a Nokia S60 device, the required software is called Nokia PC Suite, and is available for download from the Nokia website (http://www.nokia.com).

   - **Bluetooth support:** Both the cellular phone and the PC have Bluetooth support, so that files can be sent from the PC to the cellular phone wirelessly. (This method is only recommended for advanced users.)

3. **Internet access:** Make sure you have internet access from your PC and from the cellular phone.

4. **Connection information:** Obtain the following information from your video gateway administrator:

- The method to use to connect to the video gateway unit: via a direct connection or via a proxy server
- The required IP address or host name, and port number, for connecting to each video gateway unit
- The user name and password for accessing the video gateway unit

Installing and Configuring SVClient S60

Before installing SVClient S60 on your cellular phone, you must download the software from the SerVision website. Then you can use the synchronization software on the PC to install SVClient S60 on the cellular phone.

Downloading SVClient S60

To download SVClient S60:

1. On the PC, use your browser to go to:

   `www.servision.net`

2. Navigate to
   `Support->Downloads->Client Software`

3. Click `S60 2nd edition: S60 Symbian Ver.8.0 (Nokia 6680_6681_6682_N70_N72_N90)`

4. Select the `.sis` file (e.g., `SVClientS60v2-2.39.sis`), and save it on the PC.

   Note: The number in the file name (e.g., *v2-2.39*) is composed of two parts: the first part indicates the S60 edition (e.g., *v2* for the 2nd edition), while the other two numbers represent the software version (e.g., *2.39*). If more than one version is available on the website, download the one with the highest version number.

Installing SVClient S60

Two basic methods exist for installing SVClient S60 on a cellular phone:

- Using synchronization software installed on the PC to install the downloaded software on the cellular phone.
- Transferring the downloaded file to the cellular phone using a Bluetooth connection and then running the file on the phone.

NOTE: If you are unfamiliar with the process of transferring files to your cellular phone or opening files on the phone, the first method is recommended.

To install SVClient S60:

1. Connect the cellular phone to the PC via USB cable or Bluetooth. The synchronization software should indicate that the phone is connected.

Figure 1 Notification above the system tray indicating that the phone is connected to the PC via USB cable

2. On the PC, double-click the `sis` file that you downloaded from the SerVision website. The installer opens and prompts you to confirm that you want to install the software on the phone.

Figure 2 Installer prompt

3. Click **Yes**. The software is downloaded to the phone, and an additional message appears, telling you to continue the installation process on the phone:

4. Click **OK**. The installation process on the PC is complete. On the cellular phone, a **Security warning** appears:

Figure 3: Security warning on the cellular phone

5. Select **Yes**. You are prompted to confirm that you want to install the application:

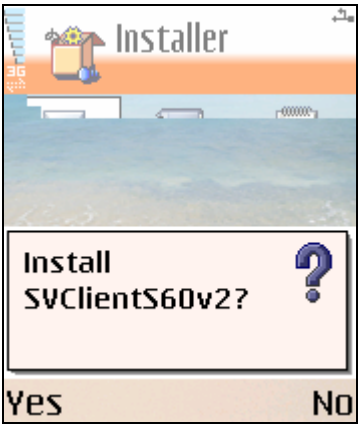
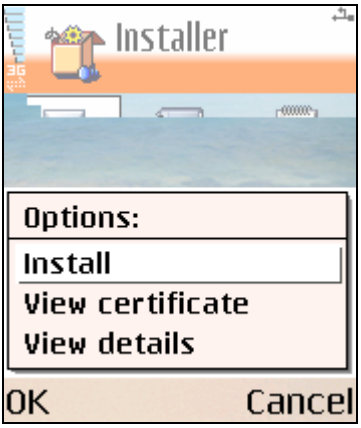


Figure 4: Installation confirmation prompt

6. Select **Yes**. A list of installation **Options** appears:



7. Select **Install**. Before the installation begins, any or all of the following messages may appear:

    - If a previous version of the SVClient S60 is installed on the phone, you are prompted to confirm that you want to replace the existing version with the version you just downloaded. Select **Yes**.

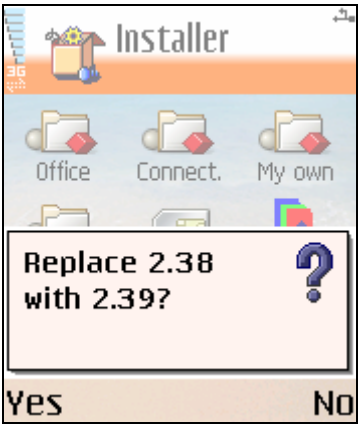


Figure 5 Replace-confirmation message

- In some cases, if other applications are running on the phone, you are prompted to close them before installing SVClient S60. Select **Yes**.

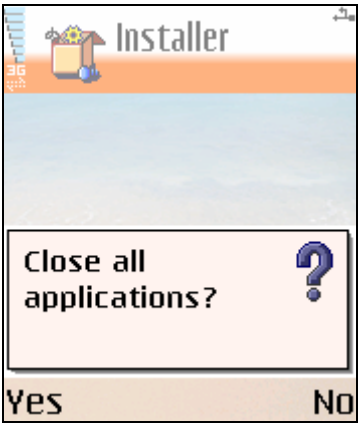


Figure 6 Close-applications prompt

- If a memory card is installed on the phone, you are prompted to select the memory – built-in phone memory or memory card – on which you want to

install SVClient S60. SVClient S60 can be installed on either memory.

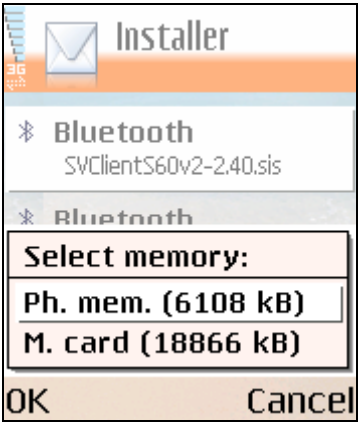


Figure 7 Select-memory prompt

When you have responded to all the messages that are displayed, the application is installed on the cellular phone. When the installation is complete, a confirmation message appears on the phone, and SVClient S60 appears in the menu of applications on the phone.

Figure 8: Installation confirmation message on the phone

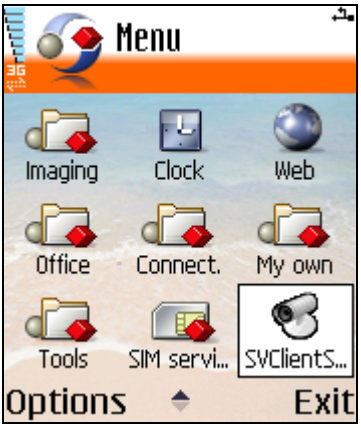


Figure 9: SVClient S60 in the menu

➪ *To install SVClient S60 on the cellular phone using Bluetooth:*

1. Connect the PC to the cellular phone using Bluetooth.
2. Send the `sis` file that you downloaded from the SerVision website to the cellular phone. The file should appear in the Messages Inbox.
3. Open the file. The Installer opens and a **Security warning** appears (see figure 3).
4. Follow the instructions above, beginning with step 5.

Opening SVClient S60

➪ *To open SVClient S60:*

- On the cellular phone, open the menu, and then choose SVClient S60. SVClient S60 opens.

The first time you start SVClient S60, the Gateway Configuration screen opens. Follow the instructions in the next section to

configure the video gateway's settings and connect to it the first time.

Figure 10 Gateway Configuration screen

When you subsequently open SVClient S60, it automatically connects to the gateway to which it was connected at the end of the previous session. If the phone is not already connected to the internet, SVClient S60 attempts to connect using the default ISP connection.

Configuring Connection Settings

Before using SVClient S60 to connect to a video gateway, you have to enter the following information:

- The public IP address or host name of the video gateway unit
- The port number of the unit
- The user name and password required for accessing the unit through a client application

SVClient S60 can connect to SerVision video gateways directly or through a proxy server. If you will be connecting through a proxy server, the proxy settings you enter here must match those that are defined in the unit's configuration. (For additional information, please refer to the unit's configuration guide.) You will need to know the following information in order to configure a proxy connection:

- The name by which the unit is registered on the proxy server. For SVG and IVG units, this is the name of the unit as it appears in the configuration. For HVG units, this is configured in the proxy settings of the unit.
- The hostname or IP address of the proxy server. If you are using the SerVision proxy service, SVClient S60 fills this in automatically.
- The port through which SVClient S60 must connect to the proxy server. If you are using the SerVision proxy service, SVClient S60 fills this in automatically.

To configure a connection to a video gateway:

1. If the Gateway Configuration screen is not displayed, open it as follows:

   - Select **Options**. The Options menu opens.

Figure 11 Options menu

   - Scroll down to the **Gateway** option, and then select it. The Gateway configuration screen opens.

Figure 12: Gateway configuration screen

2. In the Gateway configuration screen, under **Gateway IP**, enter the public IP address or hostname of the video gateway.

   If you are connecting via a proxy server, fill in the name of the unit as it is registered on the proxy server. (This name is configured in the unit's configuration utility.)

3. Under **Gateway port**, enter the number of the port used by the gateway.

4. Enter the **User name** and **Password** for accessing the video gateway unit through a client application. (Scroll down if the **Password** field is not visible.)

   Note: If the unit uses the default user name (**`anonymous`**) and password (**`guest`**), scroll down to the **Anonymous authentication** field, and then select **Options**. In the Options menu, select **Yes**. The **User name** and **Password** fields are automatically set to the default values.

5. If you are using a proxy server, continue with the next procedure.

   If you are not using a proxy server, select **Done**. The cellular phone connects to the gateway and displays live video from one of the cameras connected to it.

Figure 13: Gateway connected

To complete the proxy server configuration:

1. Scroll down in the **Gateway** configuration screen, and then select the **Use proxy** field.

Figure 14: Use Proxy field

2. Select **Options**, and then select **Yes**.
3. Scroll down to the **Use default proxy** field.
4. If you are using SerVision's proxy server, select **Options**, and then select **Yes**. The **Proxy IP** and **Proxy port** fields are automatically filled in. Skip to step 8 below.

   Note: The values are copied from the **Default proxy IP** and **Default proxy port**, respectively.

Figure 15: Using the default proxy settings

5. If you are using your own proxy server, select **Options**, and then select **No**. You can now edit the **Proxy IP** and **Proxy port** fields above.

6. Scroll up to the **Proxy IP** field, and then enter the IP address of your proxy server.

7. Under **Proxy port**, enter the port number used by the proxy server.

Figure 16: Configuring proxy settings manually

8. Select **Done**.

   The cellular phone connects to the gateway through the proxy server and displays live video from one of the cameras connected to it.

Overview of the Interface

When SVClient S60 is running and connected to a gateway, live video from the gateway is displayed. The first time you connect to a gateway, video from the camera connected to camera connector #1 on the gateway is displayed. In subsequent connections, the display reverts to the camera from which video was displayed when the last connection to that gateway ended. The name of the camera is displayed below the video, and the current time is displayed in the upper-right corner of the video display.

Figure 17: Video display

Options Menu

The Options menu provides a variety of tools you can use to select and manage the video display.

Figure 18 Options menu

To open the Options menu:

- Select **Options**.

The exact list of items you will see in the Options menu depends on the configuration of the video gateway and camera to which you are connected, and on the actions you have already performed. The following items may appear in this menu.

Item	Description
Change Camera	Switch to one of the other cameras connected to the video gateway (see page 29).
Activators	View the current status of all activators connected to the video gateway; turn activators on or off (see page 45).
Download events	Download a list of past events that were detected by the system for a particular camera (see page 36).

Item	Description
Events	View a list of past events for a particular camera; select an event from the list and play it back (see page 36).
Playback by time	Play back recorded video by selecting a start time (see page 40).
Video Quality	Set video quality (see page 34).
Presets	Go to or save preset locations (see page 31). Note: For cameras that support PTZ.
Gateway	Configure the connection settings of a video gateway, and then connect to the gateway (see page 18).
Gateways History	Manage the list of video gateways whose connection settings are stored by SVClient S60; connect to one of the gateways in the list (see page 43).
About	Display the version number of the software.
Sound On / Sound Off	Turn audio on or off. Note: For cameras that have audio linked to them. Note: Audio is turned off by default.
Action Settings	Configure how far and how quickly PTZ cameras move in response to PTZ commands (see page 33).
Exit	Close SVClient S60.

Hotkeys

The following hotkeys (keypad shortcuts) are supported by SVClient S60:

Hotkey	Description
0	Switch to another camera (see page 29).
1	Select video quality profile 1 (lowest quality; see page 34).
2	Select video quality profile 2 (medium quality; see page 34).
3	Select video quality profile 3 (highest quality; see page 34).
8	Zoom in (for cameras that can zoom; see page 30).
9	Zoom out (for cameras that can zoom; see page 30).
Scroll Up	Tilt up (for cameras that can tilt; see page 30).
Scroll Down	Tilt up (for cameras that can tilt; see page 30).
Scroll Right	Pan right (for cameras that can pan; see page 30).
Scroll Left	Pan left (for cameras that can pan; see page 30).
*	Toggle audio on or off (for cameras that have audio linked to them).

Viewing Video

This section explains the following topics:

- Choosing a camera (below)
- Controlling a PTZ camera (see page 30)
- Selecting video quality (see page 34)

Switching Cameras

You can switch cameras in one of two ways:

- Cycle from one camera to the next in the order in which they are connected to the video gateway unit.
- Select the desired camera from a list.

➪ *To cycle from one camera to the next:*

- Press **0** on your keypad.

➪ *To select a camera:*

1. Select **Options**, and then select **Change Camera**. A list of cameras connected to the current video gateway unit appears.

Figure 19 Selecting a camera from the list

2. Select the desired camera. The menu closes, and live video from the selected camera is displayed.

Controlling PTZ Cameras

If a camera has PTZ features (pan, tilt, zoom), you can control it using SVClient S60 whenever you are viewing live video from the camera.

➪ *To use PTZ controls on a camera:*

- Use the hotkeys as follows:

Hotkey	Function
Scroll Up	Tilt up
Scroll Down	Tilt down
Scroll Left	Pan left
Scroll Right	Pan right
8	Zoom in
9	Zoom out

Presets

The video gateway can remember specific aim and zoom settings for each PTZ camera. Each aim/zoom setting is called a *preset*. You can save multiple presets for each camera, configuring each for a location that you want to monitor on a regular basis. Then you can easily switch the view from one preset location to another.

NOTE: Presets can be set using any SerVision client application (MultiClient, SVClientCE, SVClientS60, or SVClientUIQ). Once they are set, they are saved on the video gateway, and remain in effect until they are reset through one of the client applications.

To save a preset location:

1. Use the PTZ controls to aim and zoom the camera as desired.
2. Select **Options**, and then select **Presets**. The Presets menu is displayed.

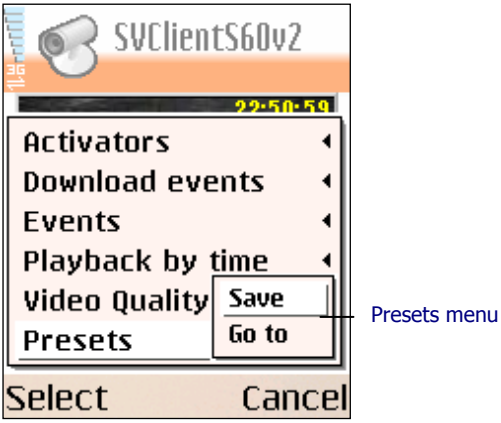


Figure 20 Presets menu

3. Select **Save**. A list of presets is displayed.

Figure 21 List of preset locations

4. Select the preset in which you want to save the current aim/zoom setting. The location is saved under the selected preset, and the menu closes.

➪ *To go to a preset location:*

1. Select **Options**, and then select **Presets**. The Presets menu is displayed (see figure 20).
2. In the Presets menu, select **Go to**. A list of presets is displayed (see figure 21).
3. Select the preset to which you want the camera to move. The menu closes, and the camera moves to the selected preset location.

PTZ Action Settings

In the PTZ action settings, *step* defines how far the camera moves in response to each command to pan, tilt, or zoom, and *speed* defines how quickly the camera moves in each case. You can configure the step and speed for each camera and each type of motion.

➪ *To control the PTZ action settings:*

1. Select **Options**, and then select **Action Settings**. The PTZ step and speed settings of the current camera are displayed.

Figure 22 Action Settings

2. Scroll up or down in the list to select the setting you want to modify.
3. Scroll left or right to adjust the selected setting.
4. Select **Done**. The settings are saved, and the screen closes.

Video Quality

You can adjust the video display quality; higher display quality generally requires greater bandwidth (i.e., a faster internet connection). You can also decrease bandwidth usage by selecting monochrome (grayscale) video instead of color video.

To adjust the video display quality:

1. Select **Options**, and then select **Video Quality**. The Video Quality menu opens.

Figure 23 Video Quality menu

2. Select the desired video quality profile. The higher the number, the better the quality, provided your internet connection is fast enough. Grayscale requires less bandwidth than any of the other options.

Tip: You can also switch to a different video quality profile using keypad shortcuts: Press **1** to select profile 1, **2** for profile 2, or **3** for profile 3.

Viewing Recorded Video

Recorded video can be played back by event or by time.

Playback by Event

If the sensors or cameras detect events, and they are recorded on the gateway unit, you can play them back. A list of events that were detected during your current connection session with the video gateway is available during the session. You can download lists of other events that were recorded previously, and these will be added to the list. You can play back an event by selecting it from the list.

NOTE: The availability of video recordings of events depends on the recording settings of the unit. If a camera is configured to record – either continuously or in response to camera events – video of camera events should be available for playback. If sensors are linked to cameras, video of sensor events should also be included with the camera events. For additional information, please refer to the unit's configuration guide.

➪ *To download a list of past events for a camera:*

1. Select **Options**, and then select **Download Events**. A list of cameras connected to the video gateway appears.

Figure 24 List of cameras from which you can download events

2. Select the desired camera. You are prompted to select the number of events to include in the list.

Figure 25 Select the number of events to download

3. Enter the number of events to download (between 10 and 1,000), and then select **OK**. The list of events is downloaded.

Once the list of events has been downloaded, you can select and view an event in the list as described below.

To play back recorded events:

1. Select **Options**, and then select **Events**. A list of cameras for which lists of events are available appears.

Figure 26 List of cameras for which lists of events are available

Note: If a camera is connected to the video gateway but does not appear in the list, either no list of events for the camera has been downloaded or no events are recorded from it. See above for information about downloading a list of events for a camera.

2. Select the desired camera. A list of past events appears, including the start time of each event and its duration.

Figure 27 List of events for the selected camera

Note: The duration given is the duration of the actual event; playback normally includes a few seconds before and after the event.

3. Scroll to the event you want to see, and then select **Play**. Video of the recorded event is played back. The date and start time of the recording appear below the video display, and the time of each frame appears in the upper-right corner of the display.

Figure 28: Event playback

Note: To stop playback, press 0 on the phone keypad. Playback ends, and live video from the same camera is displayed.

Playback by Time

If the unit is set to record video continuously from a particular camera, you can play back recorded video from that camera by selecting a start date and time.

To view recorded video from a specific time:

1. Select **Options**, and then select **Playback by time**. A list of cameras connected to the current video gateway unit appears.

Figure 29 Selecting a camera for playback by time

2. Select the desired camera. The date and time selection screen opens:

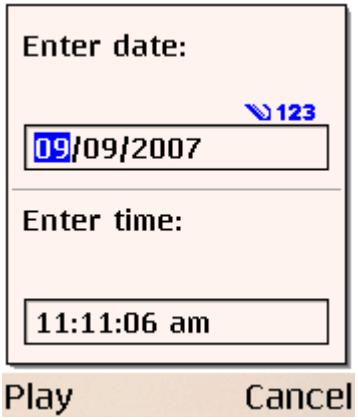


Figure 30: Date and time selection screen

3. Specify the date of the desired recording, and the time from which you want to begin playback.

4. Select **Play**. Playback begins. The date and start time of the recording appear below the video display, and the time of each frame appears in the upper-right corner of the display.

Figure 31: Playback by time

Note: To stop playback, press 0 on the phone keypad. Playback ends, and live video from the same camera is displayed.

Switching to a Different Video Gateway

You can configure the settings of more than one video gateway, and switch the display from one to the other during a session. SVClient S60 stores a list of all the video gateways whose settings you have configured.

➪ *To configure an additional video gateway:*

1. Select **Options**, and then select **Gateway**. The Gateway configuration screen opens, with the settings of the gateway to which you are currently connected displayed.

2. Modify the fields as necessary so that the settings are those of the new video gateway. (For information about filling in the fields, see *Configuring Connection Settings*, page 18.)

   Note: The original settings are saved in SVClient S60's gateway history database. You can connect to the previous video gateway by selecting it from the gateway history list, as described below.

3. Select **Done**. SVClient S60 connects to the new video gateway.

➪ *To switch to a different video gateway:*

1. Select **Options**, and then select **Gateways history**. A list of video gateways that were previously configured is displayed. The gateway to which you are currently connected appears at the top of the list and is highlighted.

Figure 32 Gateway history list

2. Scroll to the desired video gateway, and then select it (press the center of the scroll key). The cellular phone connects to the gateway and displays live video from it.

NOTE: To remove an unwanted item from the list of configured gateways, highlight the item and then select **Delete**.

Turning Activators On or Off

If the video gateway has activators (output sensors), such as alarms or remotely-activated locks, connected to it, you can turn the activators on or off using SVClient S60. For example, if the video gateway activated an alarm in response to an apparent break-in, and you want to turn the alarm off, you can do so using the SVClient S60.

To turn an activator on or off:

1. Select **Options**, and then select **Activators**. A list of the activators connected to the video gateway, and their current statuses, appears.

Figure 33 List of activators

2. Select the activator you want to turn on or off. You are prompted to confirm that you want to turn the activator on or off.

Figure 34 Confirmation prompt

3. Select **Yes**. The activator is turned on or off as requested.

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